

Product datasheet for **MG206119**

Galk1 (NM_016905) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galk1 (NM_016905) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galk1
Synonyms:	AA409894; GALK; Gk; Glk; Glk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206119 representing NM_016905 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTTGGAGACCGCCCGGGTCGAGGAGCTGCTGGCCGAGGCCCGCCGGCCTTCATGGAGGAGT
TTGGAGCCGAGCCGAGCTGGCAGTGTCCGGCGCCGGCCGCTCAACCTCATCGGGGAGCACACGGACTA
CAACCAGGGCCTGGTGTGCCATGGCACTGGAGCTCGTGACCGTGATGGTTGGCAGCCCCGGACAGAT
GGGCTTGTCTCTTCTCACCCTTCAAAGATGCAGACGAGCCCAAAGACTGCAGTCCCCTGCCCCT
CAGCCCAGTGGTCTTGGAGCCTGGAATCCACAGTGGGCAATTATGTCAAGGGAGTGATCAACATTA
CCCAGTTCCTCCGCTCGTTGGCTTCAGTGCACTGGTGGTCACTAGTCCCTGGGGGGTGGGCTTCC
AGCTCAGCGTCTCTGGAAGTGGCCACGTACACCTTCATCCAGCAGCTCTGCCAGACTCGGGGGCAATAG
CTGCCCGGGCCAGGTGTGTCAACGGGCTGAGCACAGCTTCGCAGGGGTGCCCTGTGGCATCATGGACCA
ACTCATCGCGTCTGGGGCAGAAAGGCTATGCACTACTCATTGACTGCAGGTCCCTGAAAACAAGCCTG
GTGCCACTGTGACACCAAGCTGGCCGTGCTCATCACCACCTCAATGTCCGCCATTCCCTGGGCTCCA
GCGAGTACCCGGTTCGTCCGGCAGAGTGTGAAGAAGTGGCCAGGCCCTGGGCAAGGAGAGCCTTCGAGA
GGTGCGGATGGAGGAGCTTGAGGCGGGCAGGGAGCTAATGAGCAAGGAGGGCTTCGGCGGGCCCCGGCAT
GTGGTAAGCGAGATCCGAGAACAGCCAGGCAGCAGCTGCTATGAGCCGAGGAGACTACAAGCCCTTTG
GGCGTCTCATGGTGGAGAGTCACTACTCACTCAGGGATGACTATGAGGTCACTGAGTCCCTGAGCTGGATCA
ATTGGTTGAGGCCGCGCTCTCTGTGCTGGGTTTATGGCAGTCGCATGACAGGTGGTGGCTTTGGTGGC
TGCACCGTCACTTGGTGGAGGCTCTGTTGCCCTCTTGTGATAGATCATATACAGGAGCAGTACAGTG
GGACAGCCACCTTCTACCTCTCAAGCTGCCGATGGAGCCAGGTGCTGAGCTTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206119 representing NM_016905
 Red=Cloning site Green=Tags(s)

MAAWRPPRVEELLAEARRAFMEEFGAPELAVSAPGRVNLIGEHTDYNQGLVLPMALELVTVMVGSPRTD
 GLVSLLTTSKDADEPQRLQFPLPSAQWSLEPGIPQWANYVKGVIQHYPASPLVGFSAVVVSSVPLGGLS
 SSASLEVATYTFIQQLCPDSGAIARAQVCQRAEHSFAGVPCGIMDQLIALLGQKGYALLIDCRSLETSL
 VPLSDPKLAVLITNSNVRHSLGSSEYPVRRRQCEEVAQALGKESLREVRMEELEAGRELMSEKGFRRARH
 VVSEIRRTAQAAAAMSRGDYKAFGRMLMVESHYSLRDDYEVSCPELDQLVEAALSVPGVYGSRMTGGFGG
 CTVTLLLEASVAPLVIDHIQEYSGTATFYLSQAADGAQVLSL

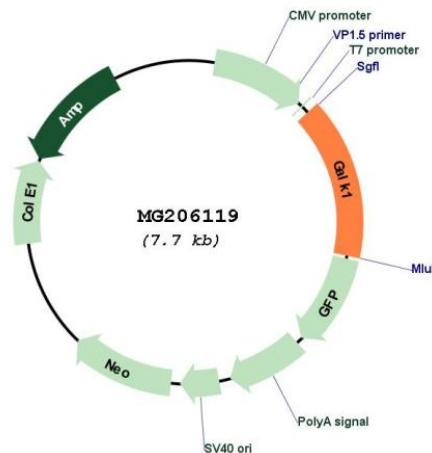
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016905

ORF Size:	1176 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_016905.2 , NP_058601.2
RefSeq Size:	1506 bp
RefSeq ORF:	1179 bp
Locus ID:	14635
UniProt ID:	Q9R0N0
Cytogenetics:	11 80.91 cM
Gene Summary:	Major enzyme for galactose metabolism.[UniProtKB/Swiss-Prot Function]